Application No.:   Patent No.:

Filed: Issue Date:

Title:

Commissioner for Patents
Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)

As assignee of record of each of the patents listed in the table of attachment A,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given in each of the listed patents are hereby revoked, and

NEW POWER OF ATTORNEY

the following attorneys/agents are hereby appointed to prosecute this patent/application and to transact all business in the Patent and Trademark Office connected therewith: I hereby appoint all attorneys of Thomas, Kayden, Horstemeyer & Risley, LLP, who are listed under the USPTO Customer Number shown below as the attorneys to prosecute this patent/application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Thomas, Kayden, Horstemeyer & Risley, LLP, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number:

15650
Patent Trademark Office

Please direct all future correspondence and telephone calls to:

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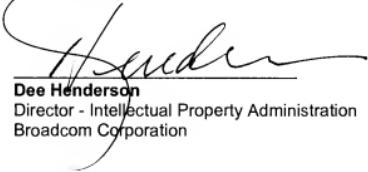Atlanta, Georgia 30339
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BROADCOM CORPORATION
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ASSIGNEE CERTIFICATION

The certification under 37 C.F.R. §3.73(b) establishing the right of assignee to take action is attached hereto along with documentation evidencing same. Further, in my official position with Broadcom Corporation, I am authorized to sign documents and otherwise act on its behalf in connection with the management and handling of patent applications and other intellectual property matters.

Date: 9/12/11

Dee Henderson
Director - Intellectual Property Administration
Broadcom Corporation

No.	Patent No	TKHR	Application Title	Issue Date	/Broadcom Assignment (Reel/Frame)
1	7,865,801	50228-6360	APPLICATION OF A META-VITERBI ALGORITHM FOR COMMUNICATION SYSTEMS WITHOUT INTERSYMBOL INTERFERENCE	01/04/11	018245/0642
2	7,657,872	50228-6380	SYSTEM, METHOD, AND APPARATUS FOR DISPLAYING PICTURES	03/09/10	022299/0916
3	7,912,428	50228-6390	SYSTEM AND METHOD PROVIDING VARIABLE-FREQUENCEY IF CONVERSION IN A MULTIMODE COMMUNICATION DEVICE	03/22/11	017802/0358
4	7,697,024	50228-6400	METHOD AND SYSTEM OF TRACKING AND STABILIZING AN IMAGE TRANSMITTED USING VIDEO TELEPHONY	04/13/10	017124/0523
5	6,882,711	50228-6410	PACKET BASED NETWORK EXCHANGE WITH RATE SYNCHRONIZATION	04/19/05	011815/0119
6	6,757,367	50228-6420	PACKET BASED NETWORK EXCHANGE WITH RATE SYNCHRONIZATION	06/29/04	011525/0459
7	6,983,017	50228-6430	METHOD AND APPARATUS FOR IMPLEMENTING REDUCED MEMORY MODE FOR HIGH-DEFINITION TELEVISION	01/03/06	012493/0143
8	7,873,128	50228-6440	METHOD AND SYSTEM FOR EQUALIZATION IN A COMMUNICATIONS SYSTEM	01/18/11	018075/0976
9	6,509,897	50228-6450	METHOD AND SYSTEM FOR PROVIDING IMPLICIT EDGE ANTIALIASING	01/21/03	010897/0886
10	6,774,910	50228-6460	METHOD AND SYSTEM FOR PROVIDING IMPLICIT EDGE ANTIALIASING	08/10/04	010897/0886
11	7,471,342	50228-6500	METHOD AND SYSTEM FOR CROSS-LUMINANCE REDUCTION IN MULTI-STANDARD TELEVISION DECODERS	12/30/08	012912/0771
12	6,940,560	50228-6510	METHOD AND SYSTEM FOR PERFORMING PAL LUMA TWO LINE VERTICAL COMBING	09/06/05	012355/0746
13	7,366,961	50228-6520	METHOD AND SYSTEM FOR HANDLING ERRORS	04/29/08	022083/0433
14	7,358,534	50228-6530	METHOD AND APPARATUS FOR PROCESSING VARIABLE LENGTH CODED DATA	06/10/08	022083/0433
15	7,804,430	50228-6540	METHOD AND APPARATUS FOR PROCESSING VARIABLE LENGTH CODED DATA	09/28/10	022083/0433
16	7,898,547	50228-6550	MEMORY CONTROLLER FOR HANDLING MULTIPLE CLIENTS AND METHOD THEROF	03/01/11	022083/0433
17	7,212,534	50228-6560	FLOW BASED CONGESTION CONTROL	05/01/07	013022/0227
18	8,031,799	50228-6570	MULTI-PAIR GIGABIT ETHERNET TRANCEIVER	10/04/11	010694/0029
19	8,023,413	50228-6580	FLOW BASED CONGESTION CONTROL	09/20/11	013022/0227

No.	Patent No	TKHR	Application Title	Issue Date	/Broadcom Assignment (Reel/Frame)
20	8,014,478	50228-6590	METHOD AND APPARATUS FOR IMPULSE NOISE DETECTION AND SUPPRESSION FOR DVB-T	09/06/11	022083/0433
21	8,018,853	50228-6600	USING RTCP STATISTICS FOR MEDIA SYSTEMS CONTROL	09/13/11	013615/0762
22	8,031,685	50228-6610	METHOD AND SYSTEM FOR DYNAMICALLY CHANGING AUDIO STREAM BIT RATE BASED ON CONDITION OF A BLUETOOTH CONNECTION	10/04/11	016337/0579
23	8,019,283	50228-6620	AUTOMATIC DATA ENCRYPTION AND ACCESS CONTROL BASED ON BLUETOOTH DEVICE PROXIMITY	09/13/11	016372/0576
24	8,023,895	50228-6630	LOCATION SYSTEM FOR BLUETOOTH ENABLED DEVICES	09/20/11	016370/0818
25	8,019,309	50228-6640	METHOD AND SYSTEM FOR A SECOND ORDER INPUT INTERCEPT POINT (IIP2) CALIBRATION SCHEME	09/13/11	015479/0231
26	8,013,888	50228-6650	METHOD AND SYSTEM FOR IMPLEMENTING FILM GRAIN INSERTION	9/06/11	017135/0986
27	8,005,312	50228-6660	SYSTEM AND METHOD FOR IMPLEMENTING GRAPHICS AND VIDEO SCALING ALGORITHM USING INTERPLATION BASED ON SYMMETRICAL POLYPHASE FILTERING	08/23/11	017307/0780
28	8,027,376	50228-6670	METHOD AND SYSTEM FOR MEASURING IQ PATH MISMATCH	09/27/11	018075/0976
29	8,026,980	50228-6680	METHOD AND SYSTEM FOR IMPROVING VIDEO COMBING DECISIONS	09/27/11	018444/0118
30	8,023,591	50228-6690	METHOD AND SYSTEM FOR A SHARED GM-STAGE BETWEEN IN-PHASE AND QUADRATURE CHANNELS	09/20/11	018868/0256
31	8,014,392	50228-6700	METHOD AND SYSTEM FOR ADVERTISING BLUETOOTH MULTICASE FEATURE	09/06/11	020734/0607
32	8,009,231	50228-6710	SYSTEM AND METHOD OF TRANSMISSION AND RECEPTION OF PROGRESSIVE CONTENT WITH ISOLATED FIELDS FOR CONVERSION TO INTERLACED DISPLAY	08/30/11	014517/0895
33	7,916,784	50228-6720	METHOD AND SYSTEM FOR INVERSE TELECINE AND FIELD PAIRING	03/29/11	017082/0161
34	8,023,564	50228-6730	SYSTEM AND METHOD FOR PROVIDING DATA STARTING FROM START CODES ALIGNED WITH BYTE BOUNDARIES IN MULTIPLE BYTE WORDS	09/20/11	014787/0265
35	6,917,247	50228-6740	NCO BASED TIMEBASE RECOVERY SYSTEM AND METHOD FOR A/V DECODER	07/12/05	013666/0024
36	7,455,362	50228-6760	DATA RATE MANAGEMENT SYSTEM AND METHOD FOR A/V DECODER	12/16/08	014557/0882

No.	Patent No	TKHR	Application Title	Issue Date	/Broadcom Assignment (Reel/Frame)
37	7,372,929	50228-6770	CLOSED LOOP SUB-CARRIER SYNCHRONIZATION SYSTEM	05/13/08	014703/0302
38	7,529,330	50228-6780	CLOSED LOOP SUB-CARRIER SYNCHRONIZATION SYSTEM	05/05/09	022588/0549
39	7,319,492	50228-6790	OPEN LOOP SUB-CARRIER SYNCHRONIZATION SYSTEM	01/15/08	014703/0328
40	7,864,865	50228-6800	LINE ADDRESS COMPUTER FOR CALCULATING THE LINE ADDRESSES OF DECODED VIDEO DATA	01/04/11	014253/0212
41	6,417,737	50228-6810	ADAPTIVE RADIO TRANSCEIVER WITH LOW NOISE AMPLIFICATION	07/09/02	011618/0793
42	6,608,527	50228-6820	ADAPTIVE RADIO TRANSCEIVER WITH LOW NOISE AMPLIFICATION	08/19/03	019588/0106
43	7,233,772	50228-6830	ADAPTIVE RADIO TRANSCEIVER WITH FILTERING	06/19/07	011827/0609
44	7,389,087	50228-6840	ADAPTIVE RADIO TRANSCEIVER WITH FILTERING	06/17/08	011827/0609
45	7,756,472	50228-6850	ADAPTIVE RADIO TRANSCEIVER WITH FILTERING	07/13/10	011827/0609
46	6,738,601	50228-6860	ADAPTIVE RADIO TRANSCEIVER WITH FLOATING MOSFET CAPACITORS	05/18/04	011581/0979
47	6,920,311	50228-6870	ADAPTIVE RADIO TRANSCEIVER WITH FLOATING MOSFET CAPACITORS	7/19/05	011581/0979
48	7,356,310	50228-6880	ADAPTIVE RADIO TRANSCEIVER WITH FLOATING MOSFET CAPACITORS	04/08/08	011581/0979
49	7,113,744	50228-6890	ADAPTIVE RADIO TRANSCEIVER WITH POWER AMPLIFIER	09/26/06	011550/0086
50	8,014,719	50228-6900	ADAPTIVE RADIO TRANSCEIVER WITH POWER AMPLIFIER	09/06/11	011550/0086
51	7,860,454	50228-6910	ADAPTIVE RADIO TRANSCEIVER WITH POWER AMPLIFIER	12/28/10	011550/0086
52	6,987,966	50228-6920	ADAPTIVE RADIO TRANSCEIVER WITH POLYPHASE CALIBRATION	01/17/06	011583/0672
53	6,917,789	50228-6930	ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT	07/12/05	011998/0642
54	7,116,945	50228-6940	ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT	10/3/06	011998/0642
55	7,349,673	50228-6920	ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT	03/25/08	011998/0642
56	7,697,900	50228-6960	ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT	04/13/10	011998/0642
57	8,023,902	50228-6970	ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT	09/20/11	011998/0642
58	6,404,293	50228-6980	ADAPTIVE RADIO TRANSCEIVER WITH A	6/11/02	011546/0560

No.	Patent No	TKHR	Application Title	Issue Date	/Broadcom Assignment (Reel/Frame)
			LOCAL OSCILLATOR		
59	7,031,668	50228-6990	ADAPTIVE RADIO TRANSCEIVER WITH A LOCAL OSCILLATOR	04/18/06	011546/0560
60	7,720,444	50228-7010	ADAPTIVE RADIO TRANSCEIVER WITH A LOCAL OSCILLATOR	05/18/10	011546/0560
61	7,970,358	50228-7020	ADAPTIVE RADIO TRANSCEIVER WITH A LOCAL OSCILLATOR	06/28/11	011546/0560
62	7,752,371	50228-7030	SYSTEM AND METHOD FOR INTERRUPT ABSTRACTION	07/06/10	015860/0669
63	5,604,741	50228-7040	ETHERNET SYSTEM	02/18/97	007369/0419
64	8,027,641	50228-7050	METHOD AND SYSTEM FOR DETECTING CHANNELS SUITABLE FOR FM TRANSMISSION IN AN INTEGRATED FM TRANSMIT/RECEIVE SYSTEM	09/27/11	020376/0950